IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Nobuhiko OOHARA et al.

Art Unit: 1621

Application No.: 10/564,984

Examiner: Nwaonicha, C.

Title: NOVEL OPTICALLY ACTIVE PHOSPHORUS-CHIRAL DIPHOSPHETANE COMPOUND, INTERMEDIATE THEREFOR, AND TRANSITION METAL

COMPLEX HAVING THE COMPOUND AS LIGAND

International Application No.: PCT/JP2004/010670

International Filing Date : July 27, 2004

Priority Date

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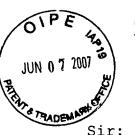
: July 28, 2003

U.S. Filing Date

: January 18, 2006

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450



TRANSMITTAL LETTER FOR INFORMATION DISCLOSURE STATEMENT AFTER THE MAILING DATE OF THE FIRST OFFICE ACTION

ON THE MERITS, BUT BEFORE THE MAILING DATE OF A

FINAL ACTION (37 CFR 1.97(c))

The Information Disclosure Statement transmitted herewith is being filed under 37 CFR 1.97(c) after the mailing date of the first Office Action on the merits, but before the mailing date of a final action under § 1.113.

The required fees are calculated below:

Information Disclosure Statement Fee (set forth in 37 CFR. 1.17(p))

\$180.00

TOTAL FEE DUE:

\$180.00

THE COMMISSIONER IS AUTHORIZED TO CHARGE THIS FEE AND ANY OTHER FEES WHICH MAY BE REQUIRED OR CREDIT ANY OVERPAYMENT TO THE CREDIT CARD NUMBER LISTED ON THE ATTACHED CREDIT CARD PAYMENT FORM (PTO-2038 FORM), REFERENCING ATTORNEY DOCKET NO. 0092/019001. A DUPLICATE COPY OF THIS PAPER IS ENCLOSED.

06/11/2007 MKAYPAGH 00000104 10564984

03 FC:1806

180.00 OP

Date: June 7, 2007

Respectfully submitted,

SMITH PATENT OFFICE

1901 Pennsylvania Ave., N.W.

Suite 901

Washington, DC 20006-3433 Telephone: 202/530-5900 Facsimile: 202/530-5902

Oohara060707

Randolph A. Smith Req. No. 32,548



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Nobuhiko OOHARA et al. Art Unit: 1621

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Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to their duty of good faith and candor as set forth in 37 CFR 1.56(a), applicants request that the references cited on attached form PTO-1449 (a copy of which is enclosed) be considered by the Examiner.

Enclosed also please find copies of the Supplementary European Search Reports from two counterpart applications citing five new references. The relevance of these five references can be seen from the Supplementary European Search Reports.

This Statement is being filed under 37 CFR 1.97(c) after the mailing date of the first Office Action on the merits, but before the mailing date of a final action under § 1.113.

The \$180.00 fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under § 1.97(c) is currently due. As stated in the attached Transmittal Letter, the Commissioner is authorized to charge this \$180.00 fee and any other fees which may be required or credit any overpayment to the Credit Card number listed on the attached Credit Card Payment Form (PTO-2038 Form), referencing Attorney Docket No. 0092/019001.

Information Disclosure Statement Application No.: 10/564,984

Page 2

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

If there are any questions regarding this application, please telephone the undersigned at the telephone number listed below.

Respectfully submitted,

Date: June 7, 2007

Randolph A. Smith Reg. No. 32,548

SMITH PATENT OFFICE

1901 Pennsylvania Ave., N.W. Suite 901

Washington, DC 20006-3433 Telephone: 202/530-5900 Facsimile: 202/530-5902

Oohara060707

JUN 0 7 2007

Substitute for form 449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Cite

No. 1

EXAMINER

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considered. Include copy of this form with next communication to applicant.

INITIAL*

Sheet 1 of 2

DOCUMENT

NUMBER

Complete if Known Application Number 10/564,984 Filing Date January 18, 2006 Applicants Nobuhiko OOHARA et al. Group Art Unit 1621 Examiner Name Nwaonicha, C. Attorney Docket Number 0092/019001

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PATENT DOCUMENTS

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¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached. ³Enter Office that issued the document, by the two-letter code (WPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not

Substitute for form 1449A/PTO	Complete if Known			
INFORMATION DISCLOSURE	Application Number	10/564,984		
STATEMENT BY APPLICANT	Filing Date	January 18, 2006 Nobuhiko OOHARA et al.		
	Applicants			
(use as many sheets as necessary)	Group Art Unit	1621		
	Examiner Name	Nwaonicha, C.		
Sheet 2 of 2	Attorney Docket Number	0092/019001		

EXAMINER	Cite	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	Т т ²
INITIAL*	No. 1	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	
		BICKELHAUPT, F., "Di-Grignard Reagents and Metallacycles", Pure & Appl. Chem., 1986,	
		pp. 537-542, Vol. 58, No. 4, IUPAC.	
		WILSON, S. et al., "Preparation of A New Class of C2-Symmetric Chiral Phosphines: The	
		First Asymmetric Staudinger Reaction", Synlett, April 1990, pp. 199-200, No. 4, Thieme	
		International, Stuttgart, Germany.	
		MARINETTI, A. et al., "Synthesis and α-Alkylation of 1-Menthylphosphetane Sulfide",	1
		Tetrahedron, March 1997, pp. 4363-4370, Vol. 53, No. 12, Elsevier Science Publishers.	
		OHASHI, A. et al., "Improved Synthesis of 1-Adamantylphosphine and Its Use in The	
		Synthesis of Cyclicphosphines Containing 1-Adamantyl Group", Heterocycles, 2000,	
		pp. 905-910, Vol. 52, No. 2.	
		TANG. W. et al., "A Chiral 1, 2-Bisphospholane Ligand With A Novel Structural Motif:	
		Applications In Highly Enatioselective Rh-Catalyzed Hydrogenations", Angewanted Chemie,	
		May 2002, pp. 1612-1614, Vol. 41, No. 9, Wiley-VCH Verlag GmbH, Weinheim, Germany.	
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EXAMINER DATE CONSIDERED

^{*}Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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